## **NOTICE**

All drawings located at the end of the document.

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starriore, Diew	REMEDIAL INVESTIGATION OF IHSSs 170, 174A, 174B, PROPERTY UTILIZATION AND
ahn, Steve ckle, Gordon	STORAGE YARD - AKS-038-97
nnedy, Colburn houd, Russ	Please find enclosed the Supplemental Health and Safety Plan for the Pre-Remedial
eben, Ann X	Investigation of IHSSs 170, 174A, and 174B, Property Utilization & Storage Yard for submittal to the EPA and CDPHE for their records (draft letter enclosed. Please call me at extension
	9886 if you have any questions.
	A. K. Sieben  Waste & Rémediation Operations
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PRIG. & TYPIST INITIALS: Courier Address: Rocky Flats Environmental Technology Site, State Hwy. 93 and Cactus, Rocky Flats, CO 80007 • 303.966.7000

Mailing Address: P.O. Box 464, Golden, Colorado 80402-0464

ADMIN RECORD

1170-A-00008



August 12, 1997

Tim Rehder United States Environmental Protection Agency Rocky Flats Project 999 - 18th Street, Suite 500 Denver, CO 80202-2466

Carl Spreng CDPHE 4300 Cherry Creek Drive South Denver, CO 80222-1530

TRANSMITTAL OF THE SUPPLEMENTAL HEALTH AND SAFETY PLAN FOR THE PRE-REMEDIAL INVESTIGATION OF IHSSs 170, 174A, AND 174B, PROPERTY UTILIZATION & STORAGE YARD

Please find enclosed the Supplemental Health and Safety Plan for the Pre-Remedial investigation of IHSSs 170, 174A, and 174B, Property Utilization & Storage Yard for your records.

If you have any questions regarding this document, please contact me at (303) 966-4226.

Steve Slaten Manager, Regulatory Division

Enclosure: As Stated

### ER/WM&I DDT

			N/A
Source/Driver: (Name & Number from ISP, IAG milestone, Mgmt. Action, Corres. Control, etc.)	Closure #: (Outgoing Control #, if applicable)	Correspondence	Due Date
Mark R. Wood Mark Wood	Sregn I D. Syrgon	A. M. Tyso	
Originator Name	QA Approval	Contractor Man	ager(s)
Ann K. Sieben	·	T. G. Hedahl	
Kaiser-Hill Program Manager(s)		Kaiser-Hill Direct	or

#### Document Subject:

TRANSMITTAL OF THE SUPPLEMENTAL HEALTH AND SAFETY PLAN FOR THE PRE-REMEDIAL INVESTIGATION OF IHSSs 170, 174A, AND 174B, PROPERTY UTILIZATION & STORAGE YARD - AMT-090-97

KH-00003NS1A

August 12, 1997

#### **Discussion and/or Comments:**

Please find enclosed the Supplemental Health and Safety Plan for the Pre-Remedial Investigation of IHSSs 170, 174A, and 174B, Property Utilization & Storage. Comments have been incorporated and field activities are commencing this week. Enclosed are 3 copies for Kaiser-Hill and 5 copies for distribution to the agencies (DOE, EPA and CDPHE). Please call Mark Wood at extension 6689 if you have any questions.

Attachments:

As Stated

cc:

M. C. Broussard

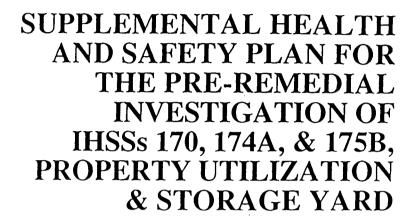
A. C. Crawford

A. L. Primrose

A. M. Tyson

**ADMIN RECORD** 

## INFORMATION ONLY



RF/RMRS-97-049 Rev. 0





Supplemental Health and Safety Plan for the Pre-Remedial Investigation of IHSSs 170, 174A, and 174B, Property Utilization & Storage Yard

DOCUMENT CLASSIFICATION REVIEW WAIVER PER CLASSIFICATION OFFICE

August 12, 1997

This Supplemental Health and Safety Plan addresses the task specific hazards associated with the Pre-Remedial Investigation of IHSSs 170, 174A, and 174B, Property Utilization and Storage Yard. Field activities will be conducted using this HASP for task and area specific hazards, and the RMRS HASP for the 1996 WARP (RF/ER-96-0016) for programmatic and general hazards.

#### ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Document Number: RF/RMRS-97-049, Rev. 0

Effective Date: 08/14/97

Organization: Environmental Restoration

#### Title

Supplemental Health and Safety Plan for the Pre-Remedial Investigation of IHSSs 170, 174A, and 174B, Property Utilization & Storage Yard

Mark R. Wood	Date: 8/11/97
RMRS Project Manager	
Health and Safety Supervisor	Date: 3/1/57
Site Safety Officer/Health and Safety Specialist	Date: 8.11.97
Radiological Engineering	Date: 08/11/97
Julio Assurance	Date: 8/11/97

## SUPPLEMENTAL HEALTH AND SAFETY PLAN PRE-REMEDIAL INVESTIGATION OF IHSSs 170, 174A, and 174B, PROPERTY UTILIZATION & STORAGE YARD DURING AUGUST TO SEPTEMBER 1997

(Supplement to the Health and Safety Plan for the 1996 WARP, April 1996, RF/ER-96-0016)

#### Introduction

This Supplemental Health and Safety Plan (HASP) covers planned subsurface soil and groundwater sampling activities to be performed in IHSSs 170, 174A, and 174B, also known as the Property Utilization & Storage Yard (PU&D Yard), as shown in Figure 1-1. Field activities are scheduled during August to September 1997. The HASP for the 1996 Well Abandonment and Replacement Program (WARP) remains the main HASP, and will be followed except where this supplemental HASP supersedes the 1996 document. The activities are substantially similar in scope and potential hazard as those described in the geotechnical boring subtask described in the WARP HASP.

This Supplemental HASP is only for the work to be conducted for this pre-remedial investigation of the PU&D Yard. The core recovery and groundwater collection program proposed per the Sampling and Analysis Plan (SAP) (RF/RMRS-97-036) is designed to characterize the PU&D Yard to confirm or disprove the potential presence of a VOC contaminant source in subsurface soil for remedial activities and define the vertical and areal extent of subsurface contamination, if observed. The scope of this proposed activity is limited to the collection of surface soil samples for radiological analysis, soil samples by the hollow-stem auger drilling method for VOC and metals analysis, and groundwater samples for VOC analysis. Sample analyses and interpretation will be the responsibility of RMRS. Activities described in this Supplemental HASP will be performed by or at the direction of Environmental Restoration Projects personnel. **Project contacts and emergency phone numbers are listed in Table 1**.

#### Table 1.

#### **Emergency Contact Telephone and Pager Numbers**

Fire Ambulance x2911

Poison Center

629-1123

x2911

Security

x2911

Nearest Emergency Medical Services Are Located At Building 122 as shown on Figure 1-1.

Nearest telephone is located at: Firing range, PU&D Building, T893B

#### Additional Project Telephone Numbers

Vice President - ER - Ann Tyson x4829/d1101 ER Projects Manager - Marla Broussard x6007/d4010/r3740 H&S Manager - Ken Jenkins x5374/d7455/r4505 Project Manager - Mark Wood x6689/d5904/r3755 Field Manager/Geologist - Mark Wood x6689/d5904/r3755 H&S Supervisor - Dave Farler x4340/d5248/r3743 HSS/Site Safety Officer - Wade Russell x5356/d6136/r3728 **HAZMAT Emergency Response** x2911/r2911 **RFETS Shift Supervisor** x2914/r3301 Occupational Health General Information x2594

Note: d = digital page, the digital page system can be activated on plantsite by dialing extension 4000, then following the instructions. r = radio number.

#### **Description of Planned Intrusive Activities.**

A hollow-stem auger drill rig will be used to drill 15 to 30 boreholes to collect subsurface soil samples for volatile organic compound (VOC) analyses. Approximately 60 to 120 soil cores will be collected up to a depth of approximately 20 feet per the SAP. Soil core samples will be transported directly to the analytical laboratories after screening for radiological and VOC contamination and minimizing site personnel contact with potentially contaminated soils. Collection of groundwater samples will be performed per the SAP. Drill cuttings will be containerized, temporarily stored in a 90-day RCRA permitted area pending analytical results, and then final disposition per FO.29.

#### Hazard Assessment.

Wildlife: No wildlife hazards in addition to those addressed in the WARP HASP are anticipated as a result of the planned intrusive activities.

<u>Chemical and Radiological Hazards:</u> Chemical hazards in addition to those addressed in the WARP HASP are anticipated as a result of the planned intrusive activities and summarized in the Supplemental Table 5-3, Chemical



RF/RMRS-97-049 Supplemental Health and Safety Plan Pre-Remedial Investigation of IHSSs 170, 174A, and 174B, Property Utilization & Storage Yard

### Supplemental Table 5-3 Chemical Hazard Summary

CHEMICAL	MATRIX	OSHA PEL	ACGIH TLV	NIOSH REL	STEL	CIELING	IDLH	SKIN NOTATION	CORROSIVE	BOILING POINT °F	VAPOR	FLASH	UEL	LEL
1,1- Dichloroethene	S	1 ppm	5.0 ppm	(A)	20 ppm	ND	(A)	NOTATION	INNITANI	89°F	PRESSURE 500 mm	POINT °F	(%) 15.5	(%) 6.5
Benzo- (a)pyrene	S	0.2 mg/m³	(A2)	(A) 0.1 mg/m <sup>3</sup>	ND	ND	(A) 80 mg/m³							
Copper	S	1.0 mg/m <sup>3</sup>	1.0 mg/m <sup>3</sup>	1.0 mg/m <sup>3</sup>	ND	ND	10 mg/m³			4703 °F	0 mm	NA NA	NA	NA
Nickel	S	1.0 mg/m³	1.0 mg/m <sup>3</sup>	(A) 0.015 mg/m <sup>3</sup>	ND	ND	(A) 10 mg/m <sup>3</sup>		-	5139 °F	0 mm	NA	NA	NA
Selenium	S	0.2 mg/m <sup>3</sup>	0.2 mg/m <sup>3</sup>	0.2 mg/m <sup>3</sup>	ND	ND	1.0 mg/m³			1265 °F	0 mm	NA	NA	NA
Vanadium (respirable dust as V <sub>2</sub> O <sub>5</sub> )	S	0.05 mg/m³	0.05 mg/m³	0.05 mg/m³ (15 min Ceiling)	ND	0.5 mg/m <sup>3</sup>	70 mg/m <sup>3</sup>			3182 °F	0 mm	NA	NA	NA
Notes:				L										

Units are as specified in the column headings unless otherwise noted.

- (A) NIOSH Identified Carcinogen
   (A2) ACGIH Suspected Human Carcinogen
   (1) NIOSH REL Value
- (2) OSHA PEL Value
- (3) ACGIH TLV Value

NA = Not Applicable

ND = Not Determined

Hazard Summary. This work involves potential contact with soil and/or water containing concentrations of chemicals in the parts per billion range and metals in the parts per million range. Site specific data provided in Table 2 indicates the potential for hazardous levels of metal contamination in surface soil in the work area of IHSS 174A. Particular attention will be paid to dust suppression and air monitoring activities at locations which could potentially produce contaminated soil or groundwater, and personnel will use real-time air monitoring results to determine when and if it is necessary to upgrade to higher levels of PPE. Table 3 summarizes potential contamination hazards.

Table 2
Maximum Contaminant Concentrations in
Soil and Downgradient Wells

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Compound	Surface Soil Samples IHSS 174A	Well 70393 (μg/L)	Well point 61495 (μg/L)
1,1,1-Trichloroethane	160 µg/Kg	84	54
1,1-Dichloroethene ·	_	20	15
Tetrachloroethene	94 μg/Kg	9	2
Trichloroethene		36	7
Beryllium	35 mg/Kg	•	•
Copper	108 mg/Kg	-	-
Chromium	43.5 mg/Kg	•	-
Lead	814 mg/Kg	•	-
Nickel	53.4 mg/Kg	-	
Selenium	20.4 mg/Kg	-	-
Vanadium	43,400 mg/Kg	•	-
Aroclor-1254	9 mg/Kg	-	
Benzo(a)pyrene	0.26 mg/Kg	-	-

Table 3
Potential Contamination Hazards

Task Description	Potential Contaminants	PPE to be Used
Soil borings, disturbance of subsurface soil and collection of soil samples.	Soil and saturated soil with low levels of volatile organic compounds, metals, polynuclear aromatic hydrocarbons, and polychlorinated biphenyl's.	Start in Level D. Air monitoring and/or soil conditions (wet, muddy) may indicate need to upgrade to Modified D, C, or B at the discretion of the HSS.
Groundwater sampling.	Groundwater with low levels of volatile organic compounds.	Start in Level D. Air monitoring and/or soil conditions (wet, muddy) may indicate need to upgrade to Modified D, C, or B at the discretion of the HSS.

Physical Cold and heat stress preventative guidelines detailed in the WARP HASP and the RMRS Heat Stress Program (Appendix B) will be followed. Care will be taken to prevent injury due to slips, trips, and/or falls. The drill rigs wheels will be blocked during drilling and sampling operations and only the driller, driller's helper, geologist, and site safety officer will be allowed in the immediate vicinity of the vehicle. Borehole locations will be cleared for the presence of overhead and underground utility lines prior to the commencement of intrusive activities.

#### **Unanticipated Hazards or Conditions**

Any hazards that may be encountered which are of an unusual nature or which represent an unknown threat will be managed in accordance with this RMRS policy statement. "In the event unanticipated hazards or conditions are encountered, the project activities will pause to assess the potential hazard or condition. The potential hazard or condition will be evaluated to determine the severity or significance of the hazard or condition and whether the controls on the project are sufficient to address the hazard or condition. Based on this initial evaluation, a determination will be made whether to proceed with controls currently in place; segregate the hazard or condition from the project activity, if it can be done safely; or curtail operations to address the unexpected hazard or condition. Concurrence to proceed down the selected path must be obtained from the RMRS Vice President or thier designee. In addition, the resumption of field activities involving radiological issues will be in accordance with Article 345 of the RFETS Radiological Control Manual."

#### **Equipment Decontamination/Radiological Contamination Monitoring**

Equipment used for drilling and sampling will be decontaminated to the extent possible within the work area. Radiological contamination monitoring will be performed for total fixed plus removable and removable alpha and beta/gamma contamination prior to release from RFETS per HSP 18.10 and approval of the survey(s) by Radiological Operations Supervisor. If contamination levels are below releasable limits, the equipment may then be released to the 891 Yard by the Site Safety Officer/health and safety specialist (HSS). If additional decontamination is necessary the equipment will be transported to the Main Decontamination Facility for additional decontamination.

#### **Project Organization**

Figure 2-1 shows the project organization chart and project responsibilities.

#### Personnel

Personnel monitoring and decontamination procedures as described in the FY96 WARP HASP remain in effect.

Figure 2-1

**Project Organization** Ann Tyson Director **Environmental Restoration** RMRS Maria Broussard ER Projects Manager RMRS Mark Wood Project Manager/Site Geologist RMRS Dave Farler Greg DiGregorio Quality Assurance Officer Health & Safety Supervisor RMRS RMRS Scott Newsom Radiological Engineer SSOC Mike Pepping Wade Russell Dale McGee Hopi Salom on Site Safety Officer/ Driller Sample Coordinator Waste Management Health & Safety Specialist Ground Exploration RMRS RMRS RTG Corinne Bogert Data Manager RTG

August 7, 1997

I have read the contents of this Supplemental HASP, and I am familiar with the FY96 WARP HASP, and agree to comply with the contents within.

Name	Signature	Title	Date
			_
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17100	·		
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## Activity Hazard Analysis for the Supplemental Health and Safety Plan Pre-Remedial Investigation of IHSS's 170, 174A, and 174B, Property Utilization & Storage Yard

ACTIVITY DESCRIPTION: Soil borings and soil and groundwater sampling using a truck-mounted drill rio.

Activity	Potential Hazard	Protective Control Measures
Soil borings, including soil core and groundwater sampling	Slips, trips, and falls	Pre-activity work area survey to identify potential hazards associated with operations. Secure area, use safety shoes and glasses. Hazard assessment per section 5.3.6.*
	Exposure to airborne radioactive or chemical contaminants	On-site monitoring requirements will be established prior to project implementation per Section 6.0 and 7.0.*
	Dermal exposure with radioactive or chemical contaminants in soils and groundwater	Establish monitoring program prior to operations. Define appropriate level of PPE.
	Mechanical/hydraulic hazards	Pre-work safety discussion and procedures identified in Section 5.3.1.*
	Noise exposure	Hearing protection will be required during drilling and Geoprobe hammer operations.
	Electrical hazards	Clearances will be maintained per Section 5.3.2.*
	Hot work hazards	Fire and heat protection will be required during welding and cutting of steel casings.
	Vehicular and pedestrian traffic.	Site control will be maintained per Section 6.0.*
	Underground/above-ground utilities	Utility clearances will be performed per Section 5.3.*
	Manual material lifting	Personnel will follow safe lifting practices per Section 5.3.*
	Falling objects	Hard hats, steel-toed boots, and safety glasses will be worn per Section 8.0.*
	Cold stress/heat stress	Pre-work discussion to ensure awareness. Follow guidance in RFETS Heat Stress Program (Appendix B) and Section 5.7.*
2) Equipment decontamination	Contact with potentially contaminated rinse water	Personnel PPE will be defined prior to decon operations.
	Similiar exposure hazards as identified above	PPE and monitoring requirements consistent with intrusive and sampling operations.
	High pressure steaming, as appropriate	PPE as described in Section 8.0.*

PROJECT MANAGER CONCURRENCE: Mark was DATE: 8-12-97

#### Revised Appendix A of Supplemental HASP for the Pre-Remedial Investigation of IHSS's 170, 174A, and 174B, Property Utilization & Storage Yard

#### Site Location and Description:

Location: PU&D Yard and vicinity

Description: Drill 15 to 30 soil borings using drilling rig and collect soil and groundwater samples.

Suspect Contan		doing drining hig and bollo	<u> </u>					1
MONITORING REQU	JIREMENTS		ACTION LEV	/ELS				
<del></del>	PEL	Instrument	Range	Level D modified	Level C	Level B	Notes	
Hydrocarbons		TVA-1000B or Minirae w/ 11.7 ev lamp						
		PID	0-2,000 ppm	>bkg	N/A	•	*Any sustained reading above background	
		FID	0-50,000ppm	>bkg	N/A	•	in the BZ	
Particulates						<del>_</del> .	*Dust Control (misting) will be used above 1.5 mg/m3	
	3 mg/m3	MIE Miniram	0.1-100 mg/m3	0.5 mg /m3	0.5 mg /m3	•	In areas where copper and vandadium dust are suspe	cted,
Personal Monitori	ng						dust control will be used to minimize dust generation a	at or below 0.5 mg/m3
		Contam	inant				Analytical Method	
Monitoring for VOA's	using personal s	ampling methods is required	l for sustained levels in	n BZ, upgrade fo	or respiratory	protection.	NIOSH Methods	
Monitoring for Methar	ne in suspected a	areas, stop work above 25%	LEL explosion hazard	. withdraw from	area immedia	tely.	Range 0-100% LEL, MSA Passport or equivalent.	

Personal	Protec	tive Eaul	pment

Type of Work	Level D	Level D	Tyvek	Saranex	Nitrile	Silvershield	Latex	Leather	Face	Rubber	Full Face	Level B
}	Doe Coveralls	Modified	Coveralls	Coveralis	Gloves	Gloves	Gloves	Work Gloves	Shield	Apron	Respirator	Supplied Air
Drilling	•	(3), (1)	(3)	(1)	•				(1)			(2)
Soil Sampling/ Logging Core	•	(3), (1)	(3)	(1)	•				(1)			(2)
Sampling groundwater	•	(3), (1)	(3)	(1)	•				(1)			(2)
Handling IDM		(3), (1)	(3)	(1)	•				(1)	_		(2)
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- (1) If high VOA's reading or free liquids are encountered personal will upgrade to Saranex and Face Shields. Sustained readings of VOC's in breathing zone will require backing off and allowing samples to vent, if there is no wind present the use of large industrial size fan will be used. If work practices warrant, or wet/muddy conditions exist, Tyvek is required.
- (2) If workers must work where VOC readings are sustained in the breathing zone, work will stop and supplied air respiratory protection will be used and more protective PPE requirements.
- (3) If RWP is needed
- (\*) Required under normal operations or can be changed at the desecration of HSS. Drillers will wear both inner and outer (11 mil) nitrile gloves. Notes

PEL = Permissible Exposure Limit

ppm = parts per million

PPE = Personal Protective Equipment

OSHA = Occupational Safety and Health Administration

PID = Photoionization Detector

BZ = breathing zone

VOA = Volatile Organic Analyte

EPA = U.S. Environmental Protecton Agency

FID = Flameionization Detector

mg/m3 = milligrams per cubic meter

IDM = Investigative derived materials (typically soils)

USCG = U.S. Coast Guard

# APPENDIX B RMRS RFETS HEAT STRESS PROGRAM AND HEALTH & SAFETY FIELD FORMS

#### RFETS HEAT STRESS PROGRAM

#### HEAT STRESS GUIDELINES FOR LIGHT WORK

(	1)	(2)	(3)	(4)
work/rest	WBGT°F	WBGT°F	WBGT°F	WBGT°F
Continuous	86	76	72	68
75/25%	87	77	73\	69
50/50%	89	78.5	74.5	70.5
25/75%	90	79.9	75.9	71.9

#### HEAT STRESS GUIDELINES FOR MODERATE WORK

(1) (2) (3) (4)							
WORK/REST	WBGT°F	WBGT°F	WBGT°F	WBGT°F			
Continuous	80	70	66	62			
75/25%	82	72.4	68.4	64.4			
50/50%	85	74.9	70.9	66.9			
25/75%	88	77.9	73.9	69.9			

#### HEAT STRESS GUIDELINES FOR HEAVY WORK

(	<b>i</b> )	(2)	(3)	(4)
WORK/REST	WBGT°F	WBGT°F	WBGT°F	WBGT°F
Continuous	77	67	63	. 59
75/25%	78	68.6	64.6	60.6
50/50%	82 ·	72.2	68.2	64.2
25/75%	86	76	72	68

- (1) No Personal Protective Equipment
- (2) One pair coveralls (Anti C), modesty garments, gloves, hood, shoe covers.... (Level D Haz Mat PPE)
- (3) Two pair coveralls (Anti C), modesty garments, gloves, hood, shoe covers....

One pair coveralls (Anti C), modesty garments, gloves, hood, respirator. (Level C Haz Mat PPE)

(4) Two pair coveralls (Anti C), modesty garments, gloves, hood, shoe covers, respirator. (Level A&B Haz Mat PPE)

### PROPERTY UTILIZATION AND STORAGE YARD PRE-REMEDIAL INVESTIGATION

Operator's Daily Heavy Equipment Inspection Checklist

Date: \_\_\_\_\_ Equipment: CME 75 Drill Rig Mounted on Ford 900 Inspect Each Item Item Item Explain actions if not OK Listed Below OK Not OK Tracks Hoist Cylinder Tilt Cylinder Bucket/Pins/Teeth Hoisting and Lowering Cables Coupling Device(s) Engine Oil Level Water/Antifreeze Hydraulic Controls/Fluid/Hoses Water Pump/Hoses Hydraulic System Lockout Supplied Air Tanks and Tank Mounts Safety Belt Horn Lights Backup Alarm Fire Extinguisher Fuel Level Oil Pressure Brakes/Emergency Brake Ladders Steering Wipers Mirrors Side/Rearview Remarks: Logbook Control Number: Date: (signature) (print)

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#### Daily Industrial Hygiene Air Monitoring Log PRE-REMEDIAL INVESTIGATION PROPERTY UTILIZATION AND STORAGE YARD

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## PROPERTY UTILIZATION AND STORAGE YARD PRE-REMEDIAL INVESTIGATION

Daily Health and Safety Log

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## PROPRETY UTILIZATION AND STORAGE YARD PRE-REMEDIAL INVESTIGATION

Daily Wind Speed/Cold Stress Log

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## PROPERT UTILIZATION AND STORAGE YARD PRE-REMEDIAL INVESTIGATION

Daily WBGT Log

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#### RESOURCE TECHNOLOGIES GROUP, INC.

### Industrial Hygiene Air Sampling Form

Page 1

	GENE	ERAL INFORMATIO	ıN*	
Building: Roc	om/Area:	Work Package Numbe	r:	Date
Description of Work:				
Engineering Controls:	•			
Observations, Strategies, Wo	rker Comments:			
· .				
		NNEL INFORMATION		
Person Sampled:	Emplo	oyee #:	_ Job Title:	
Company:	Super	visor:		
Specific Task Performed:				
Personal Protective Equipmen	it Wom			
	SAMP	LING INFORMATIO	)N*	
Sample Number:	Туг	pe of Sample: (circle) Pe	ersonal/Area/Field	Blank/Media Blank
Calibrator:	Serial #:	Date Cali	ibrated:	Date Due:
Sampling Pump:				
Media:				
Pre Calibration Flow Rate:	Post Calibrat	tion Flow Rate:	Average Flow	v Rate:
Time On:				
Time Off: >>>>	>Run Time:	Total Time:		Calibration Temp:°F
Time On:				
Time Off: >>>>	>Run Time:	Total Volume:_		Site Temp:°F
Time On:				
Time Off: >>>	> Run Time:	Analytical Meth	od(s):	
D 7				
Representative Exposures:	F 1 #		No	Elouge #
Name	Employee #		Name	Employee #
-				
	IND	USTRIAL HYGIENE	3	
Industrial Hygienist:	E	Employee #:	Company:	Date:
Peer Review:	· F	Employee #:	Company:_	Date:

<sup>\*</sup> Use back for additional information.

